

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 November 2004 (11.11.2004)

PCT

(10) International Publication Number
WO 2004/097389 A3

(51) International Patent Classification⁷: **H04N 5/217**

(21) International Application Number:
PCT/GB2004/001778

(22) International Filing Date: 23 April 2004 (23.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0309479.4 25 April 2003 (25.04.2003) GB
0310334.8 6 May 2003 (06.05.2003) GB

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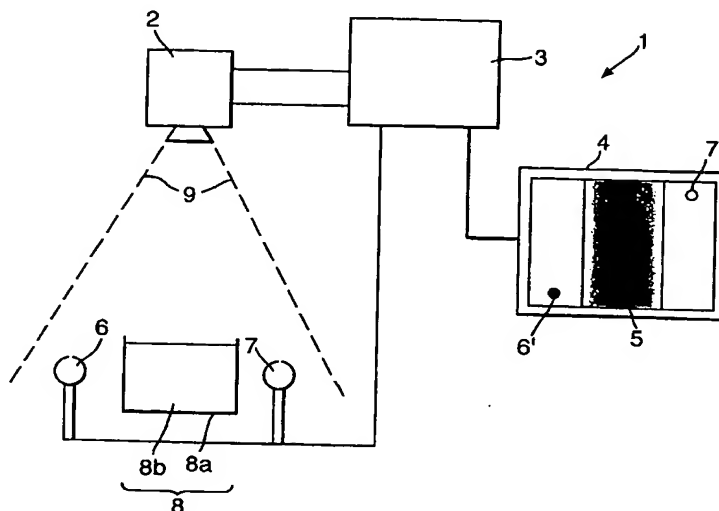
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: **THERMAL IMAGING SYSTEM AND METHOD**



(57) Abstract: A thermal imaging system and method for quantitative thermal mapping of a scene. The system comprises a thermal imaging device, a heat source of known temperature and emissivity located within the scene viewed by the thermal imaging device and a processor adapted to generate a calibrated temperature map of the scene from the data supplied by the thermal imaging device, based on the known temperature of the heat source. This enables accurate temperature measurements to be made using inexpensive uncooled Focal Plane Array detectors.



GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
13 January 2005

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

Application No

PCT/GB2004/001778

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N5/217

According to international Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04N 601J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal; INSPEC, WPI Data, PAJ, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03/077539 A (BAE SYSTEMS PLC ; WATSON NORMAN F (GB); MCGUIGAN MICHAEL GRANT (GB)) 18 September 2003 (2003-09-18) claim 8	1, 26, 28
A	GB 1 014 769 A (BARNES ENG CO) 31 December 1965 (1965-12-31) page 2, line 67 - line 71 page 3, line 43 - line 63 ----- -/--	1, 26, 28

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- *&* document member of the same patent family

Date of the actual completion of the international search

29 July 2004

Date of mailing of the international search report

19/11/2004

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INTERNATIONAL SEARCH REPORT

Application No
/GB2004/001778

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>RING F J: "Criteria for thermal imaging in medicine" ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, 1995., IEEE 17TH ANNUAL CONFERENCE MONTREAL, QUE., CANADA 20-23 SEPT. 1995, NEW YORK, NY, USA, IEEE, US, 20 September 1995 (1995-09-20), pages 1697-1698, XP010214992 ISBN: 0-7803-2475-7 page 1698, right-hand column, line 1 - line 24</p>	1,26,28
A	<p>BROWN T J: "Image processing hardware and software for the 90-element pushbroom infrared charge-coupled device/multiplexer (IR/CCD/MUX) field test instrument" MODERN UTILIZATION OF INFRARED TECHNOLOGY VI, SAN DIEGO, CA, USA, 31 JULY-1 AUG. 1980, vol. 253, 1980, pages 86-106, XP008025787 Proceedings of the Society of Photo-Optical Instrumentation Engineers, 1980, USA ISSN: 0361-0748 page 96, line 19 - line 24</p>	1,26,28

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Application No
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